

600 INCIDENTALS

ITEM 608 - WALKS, CURB RAMPS AND STEPS

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608.01 Description. This work shall consist of constructing walks, *curb ramps* and steps of specified materials in conformity with lines, grades, and dimensions shown on the plans or established by the Engineer. Except as noted below, all work for this item shall conform to Item 451.

608.02 Materials. All materials used in the concrete mixture, the proportioning and mixing shall conform to Items 499 and 511 Class C, Concrete.

Expansion joint material	705.03
Reinforcing steel	509.02

608.03 Concrete Walks.

- (a) Excavation shall be made to the required depth and to a width that will permit the installation and bracing of forms. The subgrade shall be shaped and compacted to meet the requirements of Item 203 or as ordered by the Engineer.
- (b) **Forming.** This item shall be cast-in-place or slip formed. For cast-in-place construction, forms shall be of wood or metal and extend for the full depth of the concrete, and of sufficient strength to resist the pressure of the concrete without springing. If slip formed, the provisions of Section 609.05 shall apply.
- (c) **Placing and Finishing.** The subgrade shall be moistened thoroughly immediately prior to placing concrete. The concrete shall be deposited in a single layer. It shall be struck off with a template and smoothed with a wood float or fine broom to obtain a sandy texture. All joints and edges shall have a tooled finish. No plastering will be permitted. All outside edges and joints shall be edged with a 1/4 inch (6.4 mm) radius edging tool. The surface of the walks shall be divided into blocks by *1/4 inch grooves in depth, 25% of the thickness of the concrete*, equally spaced at approximately 5 foot (1.5 m) intervals, to form rectangular blocks.

Expansion joint strips 1/2 inch (12.7 mm) in thickness and extending the full depth of the walk shall be formed around all appurtenances such as manholes, or utility poles extending into and through the sidewalk. Transverse expansion joint strips 1/2 inch (12.7 mm) in thickness and extending the full depth of the walk shall be placed at intervals of not more than 30 feet (9.1 m). Expansion joint strips at least 1/2 inch (12.7 mm) in thickness shall also be installed between the junction of the walk with all curbs and any fixed structures, extending the full depth of the walk.

- (d) The surface of the walk shall have a transverse slope of *3/16 inch per foot (4.75 mm per meter)*, with the low side adjacent to the roadway.
- (e) Concrete shall be cured as required in Section 451.10.

608.04 Concrete Steps.

- (a) Excavation and forms shall conform to Section 608.03 (a) and (b).
- (b) Placing and finishing shall conform to Section 608.03 (c).
- (c) Slopes of step treads shall be *1/4 inch per foot (6.4 mm per meter)* toward the next lower step.
- (d) Placing and curing shall be in accordance with Sections 451.06 and 451.10 except curing compound shall be 705.07, Type 2 (white opaque).
- (e) Hand railing, when specified, shall be in accordance with Item 517.

608.05 Curb Ramps. *Excavation, forming, placing and finishing, and curing shall conform to Supplemental Specification 1550 and required Detectable Warnings shall conform to Supplemental Specification 1551.*

608.06 Method of Measurement. *Walks will be measured by the square foot (square meter) of finished surface complete in place. Steps will be measured by the linear foot (meter), along the front edge of each tread. Where steps are constructed with integral walls, each tread will be considered to extend from out to out of such walls.*

Curb ramps in concrete sidewalk will be paid as both square feet of sidewalk and the number of curb ramps complete. The unit payment for each curb ramp shall include the cost of any additional materials, grading, forming and finishing not included in the cost of the new sidewalk.

608.07 Basis of Payment. The accepted quantities of specific items of walks and steps will be paid for at the contract prices designated for each of the pay items listed.

Excavation, backfill, hand railing, expansion joint material and other related miscellaneous items will not be paid for separately, but the cost thereof shall be included in the cost of the walks or steps or curb ramp of which they are a part.

Payment will be made at the contract price for:

Item	Unit	Description
608	Square Foot (Square Meter)	Concrete Walk
608	Linear Foot (Meter)	Concrete Steps
608	Square Foot (Square Meter) or Each	Curb Ramps